

AP-Auto



AP Automated Test Plan

[PDF Report](#)

Wed Sep 30 13:17:34 PDT 2020 Test Setup Information	
Device Under Test	TR398-DUT NETGEAR68-5G TR398-DUT NETGEAR68
Operator	John Smith
Estimated Run Time	6.667 h
Actual Run Time	3.289 h

Objective

The AP-Auto WiFi Performance test plan automates testing of one or more APs with flexibility to select which tests are to be run.

Add your notes below:

Chamber to Chamber test.

Summary Results

Test	Result	Candela Score	Elapsed Info
Basic Client Connectivity	Skipped	0	0
Throughput vs Pkt Size	Skipped	0	0
Multi Band Performance	Skipped	0	0
Capacity	Skipped	0	0
Stability	Skipped	0	0
Multi-Station Throughput vs Pkt Size	Dual-Band PASS	100	3.279 h
Band-Steering	Skipped	0	0
Long-Term	Skipped	0	0

Multi-Station Throughput vs Pkt Size

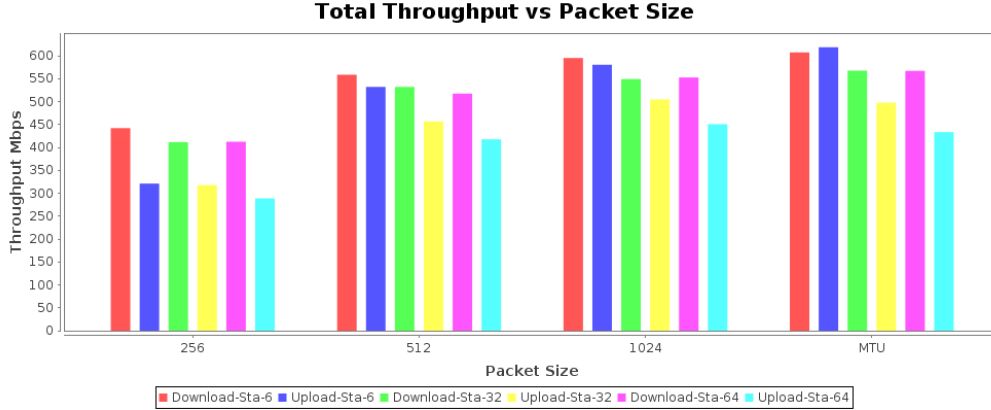
Summary

The Multi-Station Throughput vs Pkt Size test intends to verify that the Wi-Fi AP throughput at different frame sizes. This test will pick a starting point and then adjust rates up or down (hunt) until it finds the maximum rate that meets the packet loss criteria. This test is done with a single station. A hunt iteration is considered failed if the packet loss is above the configured value (1.00) or if the offered rate is more than 10% higher than the reported throughput. A failing iteration will be retried a configurable amount of times (1) The hunt for each packet size stops after the configured number of iterations (20) or when the calculated change in requested throughput for the next step is less than 1Mbps The pass/fail criteria is based on the user-specified thresholds. If no threshold is defined, the value will be reported without pass/fail being calculated.

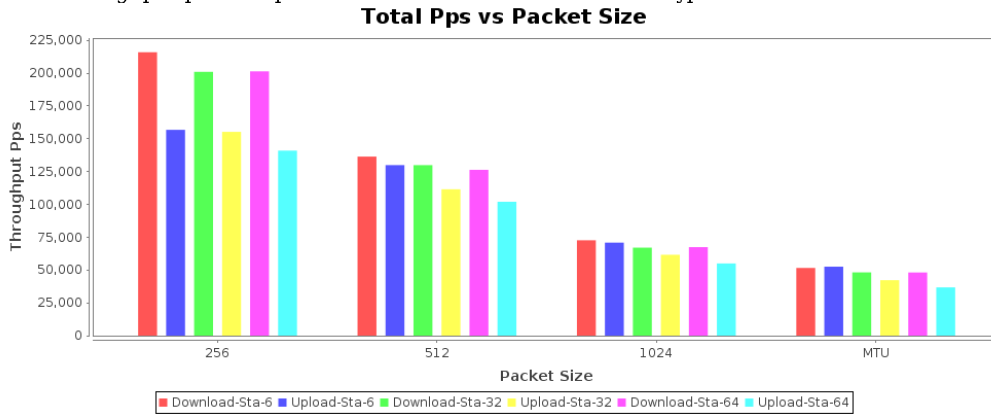
The Candela Score for the Multi-Station Throughput vs Pkt Size test is 50% based on the percentage of tests that passed and 50% based on total throughput vs requested throughput.

This test will be repeated for the different number of stations selected.

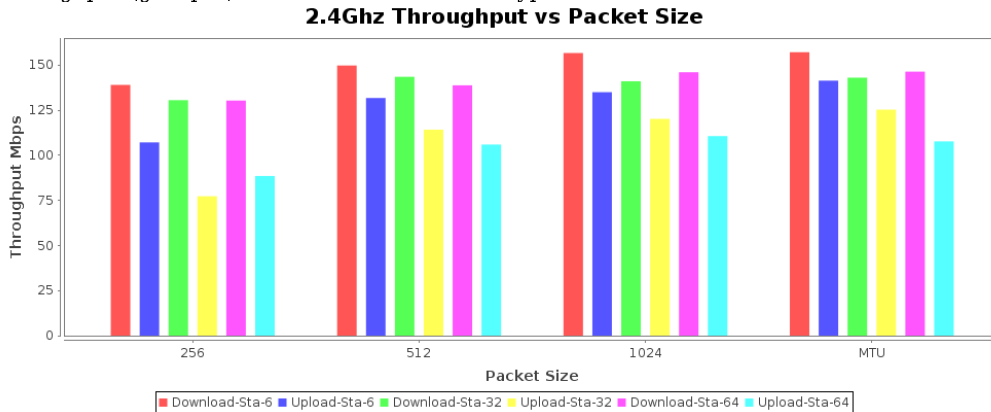
Total throughput (goodput) for each different traffic type on all bands.



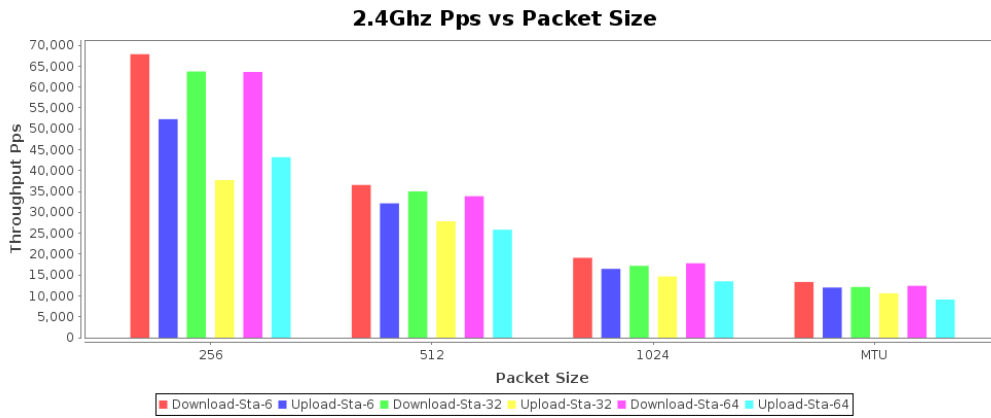
Total throughput packets-per-second for each different traffic type on all bands.



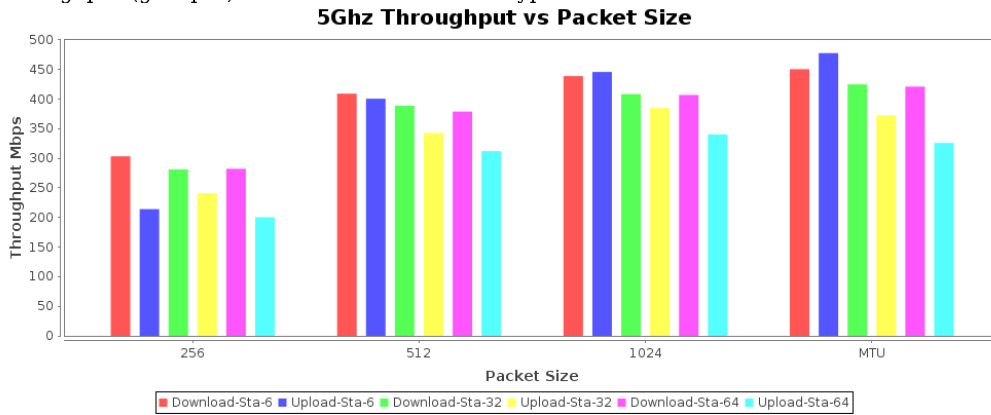
Throughput (goodput) for each different traffic type on the 2.4Ghz band.



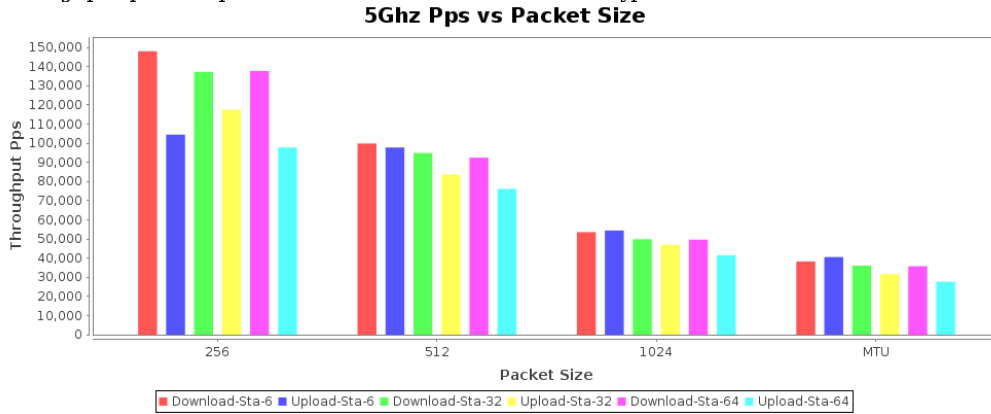
Throughput packets-per-second for each different traffic type on the 2.4Ghz band.



Throughput (goodput) for each different traffic type on the 5Ghz band.



Throughput packets-per-second for each different traffic type on the 5Ghz band.



Multi-Station Throughput vs Pkt Size Results

Type	Result	Notes
Configuration NOTE	INFO	Configured to skip 2.4Ghz band test.
Configuration NOTE	INFO	Configured to skip 5Ghz band test.
Dual-Band Download Sta#: 6 256B	Info	442.18 Mbps PER: 200.20
Dual-Band Download Sta#: 6 512B	Info	558.71 Mbps PER: 200.15
Dual-Band Download Sta#: 6 1024B	Info	595.22 Mbps PER: 200.00
Dual-Band Download Sta#: 6 MTU	Info	607.42 Mbps PER: 200.01
Dual-Band Upload Sta#: 6 256B	Info	321.11 Mbps PER: 200.00
Dual-Band Upload Sta#: 6 512B	Info	532.15 Mbps PER: 200.00

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Dual-Band Upload Sta#: 6 1024B Info 580.52 Mbps PER: 200.00
Dual-Band Upload Sta#: 6 MTU Info 618.73 Mbps PER: 200.00
Dual-Band Download Sta#: 32 256B Info 411.64 Mbps PER: 200.17
Dual-Band Download Sta#: 32 512B Info 532.11 Mbps PER: 200.15
Dual-Band Download Sta#: 32 1024B Info 549.28 Mbps PER: 200.17
Dual-Band Download Sta#: 32 MTU Info 567.67 Mbps PER: 200.07
Dual-Band Upload Sta#: 32 256B Info 318.00 Mbps PER: 200.00
Dual-Band Upload Sta#: 32 512B Info 456.82 Mbps PER: 200.00
Dual-Band Upload Sta#: 32 1024B Info 504.96 Mbps PER: 200.00
Dual-Band Upload Sta#: 32 MTU Info 497.78 Mbps PER: 200.00
Dual-Band Download Sta#: 64 256B Info 412.46 Mbps PER: 200.06
Dual-Band Download Sta#: 64 512B Info 517.52 Mbps PER: 200.07
Dual-Band Download Sta#: 64 1024B Info 552.76 Mbps PER: 200.13
Dual-Band Download Sta#: 64 MTU Info 567.17 Mbps PER: 200.11
Dual-Band Upload Sta#: 64 256B Info 288.75 Mbps PER: 200.00
Dual-Band Upload Sta#: 64 512B Info 417.91 Mbps PER: 200.00
Dual-Band Upload Sta#: 64 1024B Info 450.81 Mbps PER: 200.00
Dual-Band Upload Sta#: 64 MTU Info 433.51 Mbps PER: 200.00
Configuration NOTE INFO Configured to skip 5Ghz-B band test.
Configuration NOTE INFO Configured to skip Tri band test.

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Multi-Station Throughput vs Pkt Size Individual Steps

Type	Result	Notes
Dual-Band Download 256B Sta#: 6	1	Offered: 240.00 Mbps Tput: 118.08 Mbps PER: 0
Dual-Band Download 256B Sta#: 6	2	Offered: 480.00 Mbps Tput: 236.23 Mbps PER: 0
Dual-Band Download 256B Sta#: 6	3	Offered: 560.00 Mbps Tput: 441.13 Mbps PER: 4.07
Dual-Band Download 256B Sta#: 6	4	Offered: 460.00 Mbps Tput: 437.81 Mbps PER: 14.61
Dual-Band Download 256B Sta#: 6	5	Offered: 470.00 Mbps Tput: 410.71 Mbps PER: 3.62
Dual-Band Download 256B Sta#: 6	6	Offered: 480.00 Mbps Tput: 434.16 Mbps PER: 3.24
Dual-Band Download 256B Sta#: 6	7	Offered: 445.00 Mbps Tput: 437.90 Mbps PER: 4.93
Dual-Band Download 256B Sta#: 6	8	Offered: 462.50 Mbps Tput: 425.58 Mbps PER: 1.75
Dual-Band Download 256B Sta#: 6	9	Offered: 471.25 Mbps Tput: 437.67 Mbps PER: 1.37
Dual-Band Download 256B Sta#: 6	10	Offered: 468.75 Mbps Tput: 437.23 Mbps PER: 2.47
Dual-Band Download 256B Sta#: 6	11	Offered: 465.00 Mbps Tput: 434.80 Mbps PER: 2.88
Dual-Band Download 256B Sta#: 6	12	Offered: 465.31 Mbps Tput: 407.27 Mbps PER: 9.00
Dual-Band Download 256B Sta#: 6	13	Offered: 466.25 Mbps Tput: 428.34 Mbps PER: 4.76
Dual-Band Download 512B Sta#: 6	1	Offered: 240.00 Mbps Tput: 118.09 Mbps PER: 0
Dual-Band Download 512B Sta#: 6	2	Offered: 480.00 Mbps Tput: 236.22 Mbps PER: 0
Dual-Band Download 512B Sta#: 6	3	Offered: 880.00 Mbps Tput: 465.07 Mbps PER: 0.95
Dual-Band Download 512B Sta#: 6	4	Offered: 860.00 Mbps Tput: 545.75 Mbps PER: 33.04
Dual-Band Download 512B Sta#: 6	5	Offered: 670.00 Mbps Tput: 548.99 Mbps PER: 29.86
Dual-Band Download 512B Sta#: 6	6	Offered: 715.00 Mbps Tput: 543.83 Mbps PER: 15.15
Dual-Band Download 512B Sta#: 6	7	Offered: 657.50 Mbps Tput: 553.07 Mbps PER: 19.18
Dual-Band Download 512B Sta#: 6	8	Offered: 637.50 Mbps Tput: 547.61 Mbps PER: 12.61
Dual-Band Download 512B Sta#: 6	9	Offered: 606.25 Mbps Tput: 540.99 Mbps PER: 11.73
Dual-Band Download 512B Sta#: 6	10	Offered: 596.25 Mbps Tput: 546.94 Mbps PER: 5.72
Dual-Band Download 512B Sta#: 6	11	Offered: 585.62 Mbps Tput: 556.75 Mbps PER: 3.61
Dual-Band Download 512B Sta#: 6	12	Offered: 593.44 Mbps Tput: 553.79 Mbps PER: 1.82
Dual-Band Download 512B Sta#: 6	13	Offered: 591.09 Mbps Tput: 548.90 Mbps PER: 3.50
Dual-Band Download 1024B Sta#: 6	1	Offered: 240.00 Mbps Tput: 118.13 Mbps PER: 0
Dual-Band Download 1024B Sta#: 6	2	Offered: 480.00 Mbps Tput: 236.17 Mbps PER: 0
Dual-Band Download 1024B Sta#: 6	3	Offered: 720.00 Mbps Tput: 457.74 Mbps PER: 1.62
Dual-Band Download 1024B Sta#: 6	4	Offered: 860.00 Mbps Tput: 575.97 Mbps PER: 13.41
Dual-Band Download 1024B Sta#: 6	5	Offered: 750.00 Mbps Tput: 572.09 Mbps PER: 27.28
Dual-Band Download 1024B Sta#: 6	6	Offered: 695.00 Mbps Tput: 580.78 Mbps PER: 15.50
Dual-Band Download 1024B Sta#: 6	7	Offered: 657.50 Mbps Tput: 582.65 Mbps PER: 11.38

Dual-Band Download 1024B Sta#:	6	8	Offered: 628.75 Mbps Tput: 578.54 Mbps PER: 8.45
Dual-Band Download 1024B Sta#:	6	9	Offered: 648.75 Mbps Tput: 574.21 Mbps PER: 6.56
Dual-Band Download 1024B Sta#:	6	10	Offered: 633.12 Mbps Tput: 582.71 Mbps PER: 6.98
Dual-Band Download 1024B Sta#:	6	11	Offered: 633.44 Mbps Tput: 587.08 Mbps PER: 3.37
Dual-Band Download 1024B Sta#:	6	12	Offered: 625.94 Mbps Tput: 590.70 Mbps PER: 3.19
Dual-Band Download 1024B Sta#:	6	13	Offered: 625.78 Mbps Tput: 587.85 Mbps PER: 1.54
Dual-Band Download 1024B Sta#:	6	14	Offered: 625.16 Mbps Tput: 576.00 Mbps PER: 4.34
Dual-Band Download 1024B Sta#:	6	15	Offered: 622.89 Mbps Tput: 581.27 Mbps PER: 2.97
Dual-Band Download 1024B Sta#:	6	16	Offered: 623.52 Mbps Tput: 576.47 Mbps PER: 4.13
Dual-Band Download 1024B Sta#:	6	17	Offered: 623.32 Mbps Tput: 582.16 Mbps PER: 2.58
Dual-Band Download MTU Sta#:	6	1	Offered: 240.00 Mbps Tput: 118.08 Mbps PER: 0
Dual-Band Download MTU Sta#:	6	2	Offered: 480.00 Mbps Tput: 236.16 Mbps PER: 0
Dual-Band Download MTU Sta#:	6	3	Offered: 720.00 Mbps Tput: 459.41 Mbps PER: 1.40
Dual-Band Download MTU Sta#:	6	4	Offered: 760.00 Mbps Tput: 584.79 Mbps PER: 11.69
Dual-Band Download MTU Sta#:	6	5	Offered: 660.00 Mbps Tput: 557.88 Mbps PER: 18.86
Dual-Band Download MTU Sta#:	6	6	Offered: 650.00 Mbps Tput: 576.96 Mbps PER: 7.03
Dual-Band Download MTU Sta#:	6	7	Offered: 615.00 Mbps Tput: 587.04 Mbps PER: 5.16
Dual-Band Download MTU Sta#:	6	8	Offered: 647.50 Mbps Tput: 590.73 Mbps PER: 1.17
Dual-Band Download MTU Sta#:	6	9	Offered: 658.75 Mbps Tput: 595.59 Mbps PER: 4.88
Dual-Band Download MTU Sta#:	6	10	Offered: 649.38 Mbps Tput: 588.59 Mbps PER: 4.70
Dual-Band Download MTU Sta#:	6	11	Offered: 649.38 Mbps Tput: 586.62 Mbps PER: 5.46
Dual-Band Download MTU Sta#:	6	12	Offered: 639.06 Mbps Tput: 587.51 Mbps PER: 4.31
Dual-Band Download MTU Sta#:	6	13	Offered: 639.06 Mbps Tput: 588.61 Mbps PER: 4.16
Dual-Band Download MTU Sta#:	6	14	Offered: 636.41 Mbps Tput: 586.05 Mbps PER: 3.50
Dual-Band Download MTU Sta#:	6	15	Offered: 636.45 Mbps Tput: 593.54 Mbps PER: 2.81
Dual-Band Download MTU Sta#:	6	16	Offered: 633.91 Mbps Tput: 590.85 Mbps PER: 3.50
Dual-Band Download MTU Sta#:	6	17	Offered: 633.89 Mbps Tput: 590.63 Mbps PER: 2.38
Dual-Band Download MTU Sta#:	6	18	Offered: 633.24 Mbps Tput: 591.13 Mbps PER: 2.83
Dual-Band Download MTU Sta#:	6	19	Offered: 633.23 Mbps Tput: 580.85 Mbps PER: 5.30
Dual-Band Upload 256B Sta#:	6	1	Offered: 240.00 Mbps Tput: 117.33 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	2	Offered: 480.00 Mbps Tput: 236.18 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	3	Offered: 480.00 Mbps Tput: 191.68 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	4	Offered: 360.00 Mbps Tput: 209.59 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	5	Offered: 360.00 Mbps Tput: 256.49 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	6	Offered: 300.00 Mbps Tput: 249.29 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	7	Offered: 330.00 Mbps Tput: 295.30 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	8	Offered: 345.00 Mbps Tput: 321.03 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	9	Offered: 345.00 Mbps Tput: 285.25 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	10	Offered: 337.50 Mbps Tput: 285.27 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	11	Offered: 340.62 Mbps Tput: 303.72 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	12	Offered: 340.00 Mbps Tput: 293.01 Mbps PER: 0
Dual-Band Upload 256B Sta#:	6	13	Offered: 338.44 Mbps Tput: 296.87 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	1	Offered: 240.00 Mbps Tput: 117.40 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	2	Offered: 480.00 Mbps Tput: 236.13 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	3	Offered: 800.00 Mbps Tput: 442.92 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	4	Offered: 760.00 Mbps Tput: 478.74 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	5	Offered: 620.00 Mbps Tput: 469.28 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	6	Offered: 670.00 Mbps Tput: 474.50 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	7	Offered: 630.00 Mbps Tput: 474.17 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	8	Offered: 605.00 Mbps Tput: 469.77 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	9	Offered: 590.00 Mbps Tput: 473.51 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	10	Offered: 582.50 Mbps Tput: 468.76 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	11	Offered: 578.12 Mbps Tput: 464.41 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	12	Offered: 577.50 Mbps Tput: 467.32 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	13	Offered: 572.50 Mbps Tput: 478.99 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	14	Offered: 572.66 Mbps Tput: 475.32 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	15	Offered: 570.31 Mbps Tput: 483.77 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	16	Offered: 570.62 Mbps Tput: 485.35 Mbps PER: 0

Dual-Band Upload 512B Sta#:	6	17	Offered: 569.30 Mbps Tput: 483.62 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	18	Offered: 569.38 Mbps Tput: 477.46 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	19	Offered: 568.63 Mbps Tput: 478.90 Mbps PER: 0
Dual-Band Upload 512B Sta#:	6	20	Offered: 568.64 Mbps Tput: 481.20 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	1	Offered: 220.00 Mbps Tput: 111.39 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	2	Offered: 440.00 Mbps Tput: 215.87 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	3	Offered: 720.00 Mbps Tput: 381.89 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	4	Offered: 920.00 Mbps Tput: 507.17 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	5	Offered: 860.00 Mbps Tput: 496.27 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	6	Offered: 750.00 Mbps Tput: 513.21 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	7	Offered: 732.50 Mbps Tput: 520.08 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	8	Offered: 700.00 Mbps Tput: 523.92 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	9	Offered: 680.00 Mbps Tput: 523.45 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	10	Offered: 655.62 Mbps Tput: 523.21 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	11	Offered: 645.00 Mbps Tput: 519.55 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	12	Offered: 637.19 Mbps Tput: 517.69 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	13	Offered: 631.88 Mbps Tput: 518.42 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	14	Offered: 625.78 Mbps Tput: 520.04 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	15	Offered: 623.12 Mbps Tput: 489.31 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	16	Offered: 619.92 Mbps Tput: 516.08 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	17	Offered: 618.91 Mbps Tput: 519.59 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	18	Offered: 617.62 Mbps Tput: 515.83 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	19	Offered: 617.13 Mbps Tput: 525.15 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	6	20	Offered: 616.60 Mbps Tput: 521.64 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	1	Offered: 240.00 Mbps Tput: 118.12 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	2	Offered: 480.00 Mbps Tput: 235.93 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	3	Offered: 800.00 Mbps Tput: 452.08 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	4	Offered: 1,080.00 Mbps Tput: 521.20 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	5	Offered: 1,020.00 Mbps Tput: 501.33 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	6	Offered: 870.00 Mbps Tput: 521.88 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	7	Offered: 832.50 Mbps Tput: 508.98 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	8	Offered: 755.00 Mbps Tput: 514.88 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	9	Offered: 736.25 Mbps Tput: 515.67 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	10	Offered: 697.50 Mbps Tput: 521.19 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	11	Offered: 686.88 Mbps Tput: 514.90 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	12	Offered: 686.25 Mbps Tput: 518.63 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	13	Offered: 680.94 Mbps Tput: 515.82 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	14	Offered: 670.78 Mbps Tput: 519.65 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	15	Offered: 670.94 Mbps Tput: 526.22 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	16	Offered: 673.44 Mbps Tput: 525.24 Mbps PER: 0
Dual-Band Upload MTU Sta#:	6	17	Offered: 670.98 Mbps Tput: 523.29 Mbps PER: 0
Dual-Band Download 256B Sta#:	32	1	Offered: 463.64 Mbps Tput: 277.29 Mbps PER: 2.37
Dual-Band Download 256B Sta#:	32	2	Offered: 531.82 Mbps Tput: 414.97 Mbps PER: 5.76
Dual-Band Download 256B Sta#:	32	3	Offered: 463.64 Mbps Tput: 418.82 Mbps PER: 12.84
Dual-Band Download 256B Sta#:	32	4	Offered: 431.82 Mbps Tput: 414.08 Mbps PER: 4.49
Dual-Band Download 256B Sta#:	32	5	Offered: 461.36 Mbps Tput: 408.82 Mbps PER: 2.47
Dual-Band Download 256B Sta#:	32	6	Offered: 457.39 Mbps Tput: 415.34 Mbps PER: 5.90
Dual-Band Download 256B Sta#:	32	7	Offered: 439.77 Mbps Tput: 416.99 Mbps PER: 4.91
Dual-Band Download 256B Sta#:	32	8	Offered: 445.88 Mbps Tput: 414.09 Mbps PER: 3.17
Dual-Band Download 256B Sta#:	32	9	Offered: 445.67 Mbps Tput: 417.02 Mbps PER: 3.08
Dual-Band Download 512B Sta#:	32	1	Offered: 572.73 Mbps Tput: 286.57 Mbps PER: 0.04
Dual-Band Download 512B Sta#:	32	2	Offered: 890.91 Mbps Tput: 446.32 Mbps PER: 19.36
Dual-Band Download 512B Sta#:	32	3	Offered: 827.27 Mbps Tput: 519.46 Mbps PER: 40.80
Dual-Band Download 512B Sta#:	32	4	Offered: 668.18 Mbps Tput: 516.59 Mbps PER: 33.60
Dual-Band Download 512B Sta#:	32	5	Offered: 636.36 Mbps Tput: 517.70 Mbps PER: 21.67
Dual-Band Download 512B Sta#:	32	6	Offered: 556.82 Mbps Tput: 526.94 Mbps PER: 13.86
Dual-Band Download 512B Sta#:	32	7	Offered: 568.18 Mbps Tput: 517.46 Mbps PER: 6.97
Dual-Band Download 512B Sta#:	32	8	Offered: 557.39 Mbps Tput: 521.84 Mbps PER: 4.87

Dual-Band Download 512B Sta#:	32	9	Offered: 559.66 Mbps Tput: 519.33 Mbps PER: 4.17
Dual-Band Download 512B Sta#:	32	10	Offered: 557.95 Mbps Tput: 506.45 Mbps PER: 7.71
Dual-Band Download 512B Sta#:	32	11	Offered: 556.96 Mbps Tput: 519.28 Mbps PER: 3.22
Dual-Band Download 512B Sta#:	32	12	Offered: 555.97 Mbps Tput: 518.83 Mbps PER: 3.58
Dual-Band Download 512B Sta#:	32	13	Offered: 554.76 Mbps Tput: 519.64 Mbps PER: 2.72
Dual-Band Download 512B Sta#:	32	14	Offered: 554.37 Mbps Tput: 526.82 Mbps PER: 1.91
Dual-Band Download 512B Sta#:	32	15	Offered: 554.31 Mbps Tput: 528.60 Mbps PER: 1.42
Dual-Band Download 512B Sta#:	32	16	Offered: 553.84 Mbps Tput: 524.49 Mbps PER: 2.66
Dual-Band Download 512B Sta#:	32	17	Offered: 553.68 Mbps Tput: 522.77 Mbps PER: 2.33
Dual-Band Download 1024B Sta#:	32	1	Offered: 581.82 Mbps Tput: 286.13 Mbps PER: 0
Dual-Band Download 1024B Sta#:	32	2	Offered: 890.91 Mbps Tput: 443.57 Mbps PER: 21.59
Dual-Band Download 1024B Sta#:	32	3	Offered: 822.73 Mbps Tput: 540.15 Mbps PER: 39.89
Dual-Band Download 1024B Sta#:	32	4	Offered: 668.18 Mbps Tput: 549.96 Mbps PER: 30.09
Dual-Band Download 1024B Sta#:	32	5	Offered: 634.09 Mbps Tput: 553.33 Mbps PER: 16.67
Dual-Band Download 1024B Sta#:	32	6	Offered: 556.82 Mbps Tput: 553.34 Mbps PER: 10.03
Dual-Band Download 1024B Sta#:	32	7	Offered: 576.14 Mbps Tput: 516.62 Mbps PER: 6.70
Dual-Band Download 1024B Sta#:	32	8	Offered: 587.50 Mbps Tput: 546.48 Mbps PER: 3.34
Dual-Band Download 1024B Sta#:	32	9	Offered: 581.25 Mbps Tput: 551.66 Mbps PER: 2.95
Dual-Band Download 1024B Sta#:	32	10	Offered: 585.51 Mbps Tput: 552.89 Mbps PER: 1.92
Dual-Band Download MTU Sta#:	32	1	Offered: 581.82 Mbps Tput: 286.24 Mbps PER: 0
Dual-Band Download MTU Sta#:	32	2	Offered: 890.91 Mbps Tput: 444.34 Mbps PER: 21.98
Dual-Band Download MTU Sta#:	32	3	Offered: 822.73 Mbps Tput: 557.87 Mbps PER: 37.29
Dual-Band Download MTU Sta#:	32	4	Offered: 668.18 Mbps Tput: 562.34 Mbps PER: 28.43
Dual-Band Download MTU Sta#:	32	5	Offered: 634.09 Mbps Tput: 560.71 Mbps PER: 16.00
Dual-Band Download MTU Sta#:	32	6	Offered: 565.91 Mbps Tput: 560.92 Mbps PER: 9.00
Dual-Band Download MTU Sta#:	32	7	Offered: 585.23 Mbps Tput: 529.14 Mbps PER: 6.03
Dual-Band Download MTU Sta#:	32	8	Offered: 598.86 Mbps Tput: 555.24 Mbps PER: 2.38
Dual-Band Download MTU Sta#:	32	9	Offered: 596.02 Mbps Tput: 562.47 Mbps PER: 3.06
Dual-Band Download MTU Sta#:	32	10	Offered: 598.58 Mbps Tput: 562.05 Mbps PER: 2.72
Dual-Band Upload 256B Sta#:	32	1	Offered: 445.45 Mbps Tput: 250.20 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	2	Offered: 377.27 Mbps Tput: 240.72 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	3	Offered: 336.36 Mbps Tput: 304.49 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	4	Offered: 430.68 Mbps Tput: 287.63 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	5	Offered: 425.00 Mbps Tput: 236.29 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	6	Offered: 377.84 Mbps Tput: 235.89 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	7	Offered: 375.00 Mbps Tput: 264.40 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	8	Offered: 351.42 Mbps Tput: 269.97 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	9	Offered: 355.54 Mbps Tput: 303.15 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	10	Offered: 346.45 Mbps Tput: 284.51 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	11	Offered: 348.22 Mbps Tput: 297.97 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	12	Offered: 347.66 Mbps Tput: 300.21 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	13	Offered: 347.69 Mbps Tput: 302.34 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	14	Offered: 345.99 Mbps Tput: 297.17 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	15	Offered: 346.11 Mbps Tput: 297.89 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	16	Offered: 345.23 Mbps Tput: 300.53 Mbps PER: 0
Dual-Band Upload 256B Sta#:	32	17	Offered: 345.18 Mbps Tput: 296.64 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	1	Offered: 445.45 Mbps Tput: 265.53 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	2	Offered: 686.36 Mbps Tput: 415.15 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	3	Offered: 720.45 Mbps Tput: 410.61 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	4	Offered: 582.95 Mbps Tput: 434.11 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	5	Offered: 585.23 Mbps Tput: 414.33 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	6	Offered: 539.20 Mbps Tput: 447.52 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	7	Offered: 543.18 Mbps Tput: 451.58 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	8	Offered: 509.37 Mbps Tput: 452.82 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	9	Offered: 512.86 Mbps Tput: 452.20 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	10	Offered: 496.59 Mbps Tput: 440.21 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	11	Offered: 500.14 Mbps Tput: 443.48 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	12	Offered: 499.41 Mbps Tput: 444.31 Mbps PER: 0

Dual-Band Upload 512B Sta#:	32	13	Offered: 500.44 Mbps Tput: 451.02 Mbps PER: 0
Dual-Band Upload 512B Sta#:	32	14	Offered: 500.46 Mbps Tput: 436.00 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	1	Offered: 536.36 Mbps Tput: 252.59 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	2	Offered: 836.36 Mbps Tput: 413.97 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	3	Offered: 797.73 Mbps Tput: 500.27 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	4	Offered: 640.91 Mbps Tput: 487.03 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	5	Offered: 632.95 Mbps Tput: 490.33 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	6	Offered: 584.09 Mbps Tput: 497.94 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	7	Offered: 582.39 Mbps Tput: 485.53 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	8	Offered: 559.66 Mbps Tput: 489.78 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	9	Offered: 555.97 Mbps Tput: 476.28 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	10	Offered: 546.87 Mbps Tput: 468.12 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	11	Offered: 549.57 Mbps Tput: 480.21 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	12	Offered: 543.32 Mbps Tput: 471.08 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	13	Offered: 543.54 Mbps Tput: 481.16 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	14	Offered: 542.58 Mbps Tput: 474.08 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	15	Offered: 542.47 Mbps Tput: 479.25 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	16	Offered: 541.58 Mbps Tput: 475.35 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	17	Offered: 541.50 Mbps Tput: 479.59 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	18	Offered: 541.11 Mbps Tput: 478.23 Mbps PER: 0
Dual-Band Upload 1024B Sta#:	32	19	Offered: 541.02 Mbps Tput: 472.95 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	1	Offered: 481.82 Mbps Tput: 271.68 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	2	Offered: 740.91 Mbps Tput: 422.62 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	3	Offered: 838.64 Mbps Tput: 475.28 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	4	Offered: 684.09 Mbps Tput: 481.60 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	5	Offered: 635.23 Mbps Tput: 469.89 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	6	Offered: 557.95 Mbps Tput: 445.85 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	7	Offered: 553.98 Mbps Tput: 439.67 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	8	Offered: 548.01 Mbps Tput: 450.19 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	9	Offered: 543.47 Mbps Tput: 454.55 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	10	Offered: 537.50 Mbps Tput: 464.60 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	11	Offered: 534.16 Mbps Tput: 462.46 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	12	Offered: 530.43 Mbps Tput: 457.35 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	13	Offered: 528.48 Mbps Tput: 427.08 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	14	Offered: 526.70 Mbps Tput: 396.02 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	15	Offered: 525.73 Mbps Tput: 460.24 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	16	Offered: 524.84 Mbps Tput: 457.47 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	17	Offered: 524.42 Mbps Tput: 458.72 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	18	Offered: 524.01 Mbps Tput: 459.75 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	19	Offered: 523.74 Mbps Tput: 456.78 Mbps PER: 0
Dual-Band Upload MTU Sta#:	32	20	Offered: 523.50 Mbps Tput: 447.90 Mbps PER: 0
Dual-Band Download 256B Sta#:	64	1	Offered: 564.71 Mbps Tput: 314.74 Mbps PER: 13.96
Dual-Band Download 256B Sta#:	64	2	Offered: 470.59 Mbps Tput: 412.52 Mbps PER: 24.57
Dual-Band Download 256B Sta#:	64	3	Offered: 423.53 Mbps Tput: 374.31 Mbps PER: 10.99
Dual-Band Download 256B Sta#:	64	4	Offered: 445.59 Mbps Tput: 387.13 Mbps PER: 6.71
Dual-Band Download 256B Sta#:	64	5	Offered: 402.21 Mbps Tput: 391.29 Mbps PER: 10.49
Dual-Band Download 256B Sta#:	64	6	Offered: 427.94 Mbps Tput: 388.95 Mbps PER: 0.42
Dual-Band Download 256B Sta#:	64	7	Offered: 431.99 Mbps Tput: 407.85 Mbps PER: 1.31
Dual-Band Download 256B Sta#:	64	8	Offered: 433.55 Mbps Tput: 408.56 Mbps PER: 1.85
Dual-Band Download 256B Sta#:	64	9	Offered: 430.10 Mbps Tput: 397.45 Mbps PER: 6.65
Dual-Band Download 256B Sta#:	64	10	Offered: 429.87 Mbps Tput: 376.08 Mbps PER: 14.32
Dual-Band Download 256B Sta#:	64	11	Offered: 430.51 Mbps Tput: 410.07 Mbps PER: 1.36
Dual-Band Download 256B Sta#:	64	12	Offered: 430.84 Mbps Tput: 409.01 Mbps PER: 1.89
Dual-Band Download 512B Sta#:	64	1	Offered: 564.71 Mbps Tput: 325.97 Mbps PER: 10.99
Dual-Band Download 512B Sta#:	64	2	Offered: 741.18 Mbps Tput: 500.21 Mbps PER: 12.64
Dual-Band Download 512B Sta#:	64	3	Offered: 761.76 Mbps Tput: 467.15 Mbps PER: 19.84
Dual-Band Download 512B Sta#:	64	4	Offered: 626.47 Mbps Tput: 490.14 Mbps PER: 25.22
Dual-Band Download 512B Sta#:	64	5	Offered: 589.71 Mbps Tput: 483.45 Mbps PER: 19.93

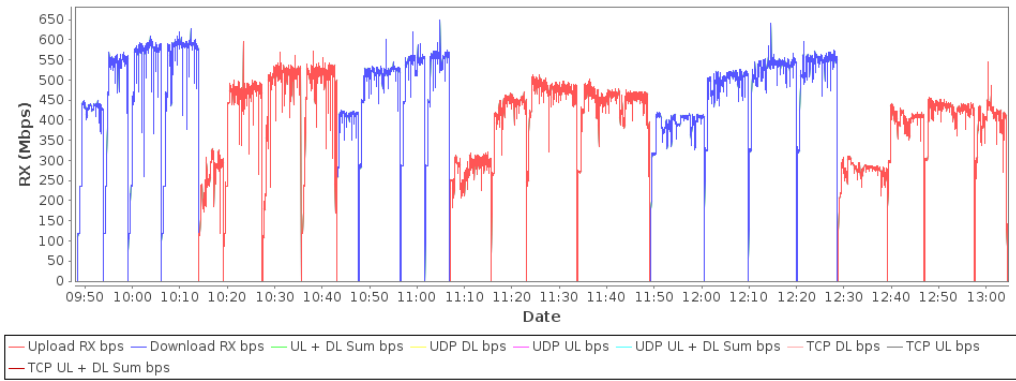
Dual-Band Download 512B Sta#:	64	6	Offered: 533.82 Mbps Tput: 491.92 Mbps PER: 8.90
Dual-Band Download 512B Sta#:	64	7	Offered: 537.50 Mbps Tput: 503.69 Mbps PER: 1.92
Dual-Band Download 512B Sta#:	64	8	Offered: 532.35 Mbps Tput: 510.49 Mbps PER: 1.55
Dual-Band Download 512B Sta#:	64	9	Offered: 544.85 Mbps Tput: 514.23 Mbps PER: 0.59
Dual-Band Download 512B Sta#:	64	10	Offered: 545.96 Mbps Tput: 514.09 Mbps PER: 1.92
Dual-Band Download 512B Sta#:	64	11	Offered: 540.06 Mbps Tput: 513.91 Mbps PER: 2.16
Dual-Band Download 512B Sta#:	64	12	Offered: 540.45 Mbps Tput: 510.16 Mbps PER: 2.17
Dual-Band Download 512B Sta#:	64	13	Offered: 540.42 Mbps Tput: 485.10 Mbps PER: 10.87
Dual-Band Download 512B Sta#:	64	14	Offered: 540.56 Mbps Tput: 515.38 Mbps PER: 1.20
Dual-Band Download 1024B Sta#:	64	1	Offered: 564.71 Mbps Tput: 325.06 Mbps PER: 11.37
Dual-Band Download 1024B Sta#:	64	2	Offered: 741.18 Mbps Tput: 506.37 Mbps PER: 11.15
Dual-Band Download 1024B Sta#:	64	3	Offered: 776.47 Mbps Tput: 494.18 Mbps PER: 15.80
Dual-Band Download 1024B Sta#:	64	4	Offered: 664.71 Mbps Tput: 540.21 Mbps PER: 14.73
Dual-Band Download 1024B Sta#:	64	5	Offered: 650.00 Mbps Tput: 525.68 Mbps PER: 17.83
Dual-Band Download 1024B Sta#:	64	6	Offered: 572.06 Mbps Tput: 517.92 Mbps PER: 19.46
Dual-Band Download 1024B Sta#:	64	7	Offered: 591.73 Mbps Tput: 539.54 Mbps PER: 4.31
Dual-Band Download 1024B Sta#:	64	8	Offered: 584.93 Mbps Tput: 543.49 Mbps PER: 4.50
Dual-Band Download 1024B Sta#:	64	9	Offered: 575.09 Mbps Tput: 541.16 Mbps PER: 3.54
Dual-Band Download 1024B Sta#:	64	10	Offered: 577.21 Mbps Tput: 543.70 Mbps PER: 2.70
Dual-Band Download 1024B Sta#:	64	11	Offered: 575.55 Mbps Tput: 537.94 Mbps PER: 4.27
Dual-Band Download 1024B Sta#:	64	12	Offered: 575.05 Mbps Tput: 540.68 Mbps PER: 3.37
Dual-Band Download 1024B Sta#:	64	13	Offered: 574.17 Mbps Tput: 538.11 Mbps PER: 4.58
Dual-Band Download 1024B Sta#:	64	14	Offered: 574.30 Mbps Tput: 537.48 Mbps PER: 4.51
Dual-Band Download 1024B Sta#:	64	15	Offered: 574.44 Mbps Tput: 544.66 Mbps PER: 2.20
Dual-Band Download MTU Sta#:	64	1	Offered: 564.71 Mbps Tput: 324.15 Mbps PER: 11.48
Dual-Band Download MTU Sta#:	64	2	Offered: 811.76 Mbps Tput: 508.84 Mbps PER: 10.79
Dual-Band Download MTU Sta#:	64	3	Offered: 879.41 Mbps Tput: 507.07 Mbps PER: 18.99
Dual-Band Download MTU Sta#:	64	4	Offered: 732.35 Mbps Tput: 551.52 Mbps PER: 20.58
Dual-Band Download MTU Sta#:	64	5	Offered: 719.12 Mbps Tput: 548.07 Mbps PER: 19.88
Dual-Band Download MTU Sta#:	64	6	Offered: 622.06 Mbps Tput: 535.66 Mbps PER: 22.53
Dual-Band Download MTU Sta#:	64	7	Offered: 616.36 Mbps Tput: 556.40 Mbps PER: 5.66
Dual-Band Download MTU Sta#:	64	8	Offered: 570.96 Mbps Tput: 551.68 Mbps PER: 5.89
Dual-Band Download MTU Sta#:	64	9	Offered: 589.15 Mbps Tput: 550.01 Mbps PER: 2.00
Dual-Band Download MTU Sta#:	64	10	Offered: 590.67 Mbps Tput: 553.29 Mbps PER: 3.18
Dual-Band Download MTU Sta#:	64	11	Offered: 590.56 Mbps Tput: 554.19 Mbps PER: 2.91
Dual-Band Download MTU Sta#:	64	12	Offered: 590.60 Mbps Tput: 554.38 Mbps PER: 3.32
Dual-Band Download MTU Sta#:	64	13	Offered: 590.73 Mbps Tput: 553.61 Mbps PER: 3.85
Dual-Band Upload 256B Sta#:	64	1	Offered: 558.82 Mbps Tput: 210.58 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	2	Offered: 461.76 Mbps Tput: 290.37 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	3	Offered: 370.59 Mbps Tput: 267.49 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	4	Offered: 351.47 Mbps Tput: 307.30 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	5	Offered: 327.21 Mbps Tput: 293.80 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	6	Offered: 338.60 Mbps Tput: 282.91 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	7	Offered: 325.18 Mbps Tput: 276.21 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	8	Offered: 322.79 Mbps Tput: 260.32 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	9	Offered: 317.46 Mbps Tput: 282.72 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	10	Offered: 319.30 Mbps Tput: 282.59 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	11	Offered: 315.72 Mbps Tput: 283.00 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	12	Offered: 316.45 Mbps Tput: 282.07 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	13	Offered: 314.71 Mbps Tput: 280.25 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	14	Offered: 314.59 Mbps Tput: 279.08 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	15	Offered: 314.13 Mbps Tput: 262.30 Mbps PER: 0
Dual-Band Upload 256B Sta#:	64	16	Offered: 314.05 Mbps Tput: 257.53 Mbps PER: 0
Dual-Band Upload 512B Sta#:	64	1	Offered: 564.71 Mbps Tput: 296.76 Mbps PER: 0
Dual-Band Upload 512B Sta#:	64	2	Offered: 482.35 Mbps Tput: 428.87 Mbps PER: 0
Dual-Band Upload 512B Sta#:	64	3	Offered: 438.24 Mbps Tput: 408.87 Mbps PER: 0
Dual-Band Upload 512B Sta#:	64	4	Offered: 507.35 Mbps Tput: 392.26 Mbps PER: 0
Dual-Band Upload 512B Sta#:	64	5	Offered: 483.82 Mbps Tput: 420.28 Mbps PER: 0

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Dual-Band Upload 512B Sta#: 64 6 Offered: 449.26 Mbps Tput: 393.09 Mbps PER: 0
Dual-Band Upload 512B Sta#: 64 7 Offered: 452.94 Mbps Tput: 377.48 Mbps PER: 0
Dual-Band Upload 512B Sta#: 64 8 Offered: 456.07 Mbps Tput: 399.85 Mbps PER: 0
Dual-Band Upload 512B Sta#: 64 9 Offered: 461.86 Mbps Tput: 409.08 Mbps PER: 0
Dual-Band Upload 512B Sta#: 64 10 Offered: 460.11 Mbps Tput: 411.74 Mbps PER: 0
Dual-Band Upload 512B Sta#: 64 11 Offered: 459.37 Mbps Tput: 411.11 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 1 Offered: 564.71 Mbps Tput: 301.58 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 2 Offered: 588.24 Mbps Tput: 439.85 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 3 Offered: 527.94 Mbps Tput: 424.14 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 4 Offered: 505.15 Mbps Tput: 438.74 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 5 Offered: 504.41 Mbps Tput: 438.04 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 6 Offered: 500.00 Mbps Tput: 434.33 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 7 Offered: 493.20 Mbps Tput: 438.64 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 8 Offered: 494.03 Mbps Tput: 435.27 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 9 Offered: 485.02 Mbps Tput: 432.93 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 10 Offered: 486.53 Mbps Tput: 412.52 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 11 Offered: 481.43 Mbps Tput: 404.86 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 12 Offered: 481.85 Mbps Tput: 426.21 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 13 Offered: 480.42 Mbps Tput: 429.21 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 14 Offered: 480.61 Mbps Tput: 428.88 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 15 Offered: 479.67 Mbps Tput: 422.51 Mbps PER: 0
Dual-Band Upload 1024B Sta#: 64 16 Offered: 479.85 Mbps Tput: 433.50 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 1 Offered: 564.71 Mbps Tput: 294.75 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 2 Offered: 482.35 Mbps Tput: 407.78 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 3 Offered: 447.06 Mbps Tput: 390.90 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 4 Offered: 536.76 Mbps Tput: 404.86 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 5 Offered: 502.94 Mbps Tput: 438.67 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 6 Offered: 463.24 Mbps Tput: 429.75 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 7 Offered: 470.59 Mbps Tput: 410.76 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 8 Offered: 477.94 Mbps Tput: 418.10 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 9 Offered: 477.02 Mbps Tput: 398.48 Mbps PER: 0
Dual-Band Upload MTU Sta#: 64 10 Offered: 477.39 Mbps Tput: 394.32 Mbps PER: 0
    
```

Realtime Throughput for: Multi-Station Throughput vs Pkt Size

Realtime Throughput for: Multi-Station Throughput vs Pkt Size



[Key Performance Indicators CSV](#)

Test configuration and LANforge software version	
Auto-Helper	true
Skip 2.4Ghz Tests	true

Skip 5Ghz Tests	true
Skip 5Gzh-B Tests	true
Skip Dual-Band Tests	false
Skip Tri-Band Tests	true
Use BSSID	true
Loop Iterations:	1
2.4Ghz Station Count:	32
5Ghz Station Count:	32
Dual-Band Station Count:	64
5Ghz-B Station Count:	64
Tri-Band Station Count:	64
Duration-20	20
Hunt Retries:	1
Maximum Hunt Iterations:	20
Multi-Conn	1
ToS	0
Upstream Port	1.1.1 eth1 Firmware: 0. 6-1 Resource: TR-398
Stability Duration:	10 m
Concurrent Ports to Reset:	10
Minimum Time between Resets:	20000
Maximum Time between Resets:	30000
Long-Term Station Count:	2
VOIP Call Count:	10
Percent:	1000000
Open:	25
PSK:	60
Enterprise:	120
Stability stall threshold UDP Upload:	100000
Stability stall threshold UDP Download:	100000
Stability stall threshold TCP Upload:	100000
Stability stall threshold TCP Download:	100000
Stability stall threshold Video:	100000
Stability stall threshold VOIP:	0

Stability Multicast Min Download Rate:	100000
Stability Multicast Max Download Rate:	0
Stability UDP Min Download Rate:	500000
Stability UDP Max Download Rate:	1544000
Stability UDP Min Upload Rate:	500000
Stability UDP Max Upload Rate:	1544000
Stability TCP Min Download Rate:	500000
Stability TCP Max Download Rate:	1544000
Stability TCP Min Upload Rate:	500000
Stability TCP Max Upload Rate:	1544000
Long-Term Duration:	5 m
Long-Term Graph Interval:	30
Long-Term Download Rate:	85%
Video Emulation Rate:	700000
Video Buffer Size:	500000
Long-Term Upload Rate:	85%
Use Packet Sizes	false
Reset Radios	false
Spatial Streams	AUTO
Bandwidth	AUTO
Modes	802.11abg, 802.11bgn-AC
WiFi Radio 0	1.1.8 wiphy1 Firmware: 10.4b-ct-9984-xtH-13-6d73a309a Resource: TR-398
WiFi Radio 1	1.1.9 wiphy3 Firmware: 10.4b-ct-9984-xtH-13-6d73a309a Resource: TR-398
WiFi Radio 2	1.1.10 wiphy5 Firmware: 10.4b-ct-9984-xtH-13-6d73a309a Resource: TR-398
WiFi Radio 3	
WiFi Radio 4	
WiFi Radio 5	
WiFi Radio 6	
WiFi Radio 7	
WiFi Radio 0	

WiFi Radio 1	1.1.8 wiphy6 Firmware: 10.1-ct-8x-__xtH-022-c443383b Resource: TR-398
WiFi Radio 2	1.1.9 wiphy7 Firmware: 10.1-ct-8x-__xtH-022-c443383b Resource: TR-398
WiFi Radio 3	
WiFi Radio 4	
WiFi Radio 5	
WiFi Radio 6	
WiFi Radio 7	
WiFi Radio 0	1.1.3 wiphy0 Firmware: 10.4b-ct-9984-xtH-13-6d73a309a Resource: TR-398
WiFi Radio 1	1.1.5 wiphy2 Firmware: 10.4b-ct-9984-xtH-13-6d73a309a Resource: TR-398
WiFi Radio 2	1.1.7 wiphy4 Firmware: 10.4b-ct-9984-xtH-13-6d73a309a Resource: TR-398
WiFi Radio 3	
WiFi Radio 4	
WiFi Radio 5	
WiFi Radio 6	
WiFi Radio 7	
WiFi Radio 0	
WiFi Radio 1	
WiFi Radio 2	
WiFi Radio 3	
WiFi Radio 4	
WiFi Radio 5	
WiFi Radio 6	
WiFi Radio 7	
Pass-Fail Tput Criteria	<pre> # modes: /a, /an-20 4x4, /an-40 4x4, /b, /bg, /bgn-20, /anAC-20,40,80 # stations: 1, 10, 20, 50, ... # Non-specified and fields set to "*" means match all. # For a/b/g modes, Auto-BW == 20, Auto-NSS == 1 # For /n modes, Auto-BW == 40, Auto-NSS == 4 # For /ac and /ax modes, Auto-BW == 80, Auto-NSS == 4 # /a mode 5 * 64 2Mbps mode=802.11a sta=1 5 * 1370 25Mbps mode=802.11a sta=1 5 * MTU 26Mbps mode=802.11a sta=1 5 * 64 50Mbps mode=802.11an sta=1 bw=20 nss=4 5 * 1370 245Mbps mode=802.11an sta=1 bw=20 nss=4 5 * MTU 245Mbps mode=802.11an sta=1 bw=20 nss=4 5 * 64 50Mbps mode=802.11an sta=1 bw=40 nss=4 5 * 1370 455Mbps mode=802.11an sta=1 bw=40 nss=4 5 * MTU 456Mbps mode=802.11an sta=1 bw=40 nss=4 # For any amount of /b stations 2.4 * 64 1Mbps mode=802.11b sta=* 2.4 * 1370 7Mbps mode=802.11b sta=* 2.4 * MTU 7Mbps mode=802.11b sta=* # For any amount of /bg stations 2.4 * 64 2Mbps mode=802.11bg sta=* 2.4 * 1370 21Mbps mode=802.11bg sta=* 2.4 * MTU 22Mbps mode=802.11bg sta=* # For /bgn 20Mhz stations. 2.4 * 64 50Mbps mode=802.11bgn sta=1 bw=20 nss=4 2.4 * 1370 240Mbps mode=802.11bgn sta=1 bw=20 nss=4 2.4 * MTU 241Mbps mode=802.11bgn sta=1 bw=20 nss=4 2.4 * 64 50Mbps mode=802.11bgn sta=10 bw=20 nss=4 2.4 * 1370 240Mbps mode=802.11bgn sta=10 bw=20 nss=4 2.4 * MTU 241Mbps mode=802.11bgn sta=10 bw=20 nss=4 </pre>

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2.4 * 64 50Mbps mode=802.11bgn sta=50 bw=20 nss=4
2.4 * 1370 240Mbps mode=802.11bgn sta=50 bw=20 nss=4
2.4 * MTU 245Mbps mode=802.11bgn sta=50 bw=20 nss=4

2.4 * 64 50Mbps mode=802.11bgn sta=100 bw=20 nss=4
2.4 * 1370 235Mbps mode=802.11bgn sta=100 bw=20 nss=4
2.4 * MTU 245Mbps mode=802.11bgn sta=100 bw=20 nss=4

2.4 * 64 50Mbps mode=802.11bgn sta=200 bw=20 nss=4
2.4 * 1370 230Mbps mode=802.11bgn sta=200 bw=20 nss=4
2.4 * MTU 235Mbps mode=802.11bgn sta=200 bw=20 nss=4

# 40Mhz /n on 2.4, same values for all number of stations currently.
2.4 * 64 50Mbps mode=802.11bgn sta=* bw=40 nss=4
2.4 * 1370 280Mbps mode=802.11bgn sta=* bw=40 nss=4
2.4 * MTU 281Mbps mode=802.11bgn sta=* bw=40 nss=4

# For /an-AC 20Mhz stations.
5 * 64 50Mbps mode=802.11an-AC sta=1 bw=20 nss=4
5 * 1370 300Mbps mode=802.11an-AC sta=1 bw=20 nss=4
5 * MTU 305Mbps mode=802.11an-AC sta=1 bw=20 nss=4

# For /an-AC 40Mhz stations
5 * 64 50Mbps mode=802.11an-AC sta=1 bw=40 nss=4
5 * 1370 615Mbps mode=802.11an-AC sta=1 bw=40 nss=4
5 * MTU 630Mbps mode=802.11an-AC sta=1 bw=40 nss=4

# For /an-AC 80Mhz stations.
5 DL 64 50Mbps mode=802.11an-AC sta=1 bw=80 nss=4
5 DL 1370 1300Mbps mode=802.11an-AC sta=1 bw=80 nss=4
5 DL MTU 1300Mbps mode=802.11an-AC sta=1 bw=80 nss=4
5 UL 64 50Mbps mode=802.11an-AC sta=1 bw=80 nss=4
5 UL 1370 1100Mbps mode=802.11an-AC sta=1 bw=80 nss=4
5 UL MTU 1100Mbps mode=802.11an-AC sta=1 bw=80 nss=4

5 DL 64 50Mbps mode=802.11an-AC sta=10 bw=80 nss=4
5 DL 1370 1300Mbps mode=802.11an-AC sta=10 bw=80 nss=4
5 DL MTU 1300Mbps mode=802.11an-AC sta=10 bw=80 nss=4
5 UL 64 50Mbps mode=802.11an-AC sta=10 bw=80 nss=4
5 UL 1370 1200Mbps mode=802.11an-AC sta=10 bw=80 nss=4
5 UL MTU 1200Mbps mode=802.11an-AC sta=10 bw=80 nss=4

5 * 64 50Mbps mode=802.11an-AC sta=50 bw=80 nss=4
5 * 1370 1200Mbps mode=802.11an-AC sta=50 bw=80 nss=4
5 * MTU 1200Mbps mode=802.11an-AC sta=50 bw=80 nss=4

5 * 64 50Mbps mode=802.11an-AC sta=100 bw=80 nss=4
5 * 1370 1100Mbps mode=802.11an-AC sta=100 bw=80 nss=4
5 * MTU 1100Mbps mode=802.11an-AC sta=100 bw=80 nss=4

# Auto (full capabilities) entries, for tput test, DUT is wave-1 3x3/2x2
2.4 * 64 50Mbps mode=Auto sta=* bw=Auto nss=Auto
2.4 * 1370 280Mbps mode=Auto sta=* bw=Auto nss=Auto
2.4 * MTU 282Mbps mode=Auto sta=* bw=Auto nss=Auto

5 * 64 50Mbps mode=Auto sta=* bw=Auto nss=Auto
5 * 1370 650Mbps mode=Auto sta=* bw=Auto nss=Auto
5 * MTU 650Mbps mode=Auto sta=* bw=Auto nss=Auto

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Show Events	true
Build Date	Wed 30 Sep 2020 09:42:27 AM PDT
Build Version	5.4.3
Git Version	7bae3baf39f890ac4f51d170a384e65cb445b8ef

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